

What is claimed is:

1. A polyurethane powder coating material comprising:
 - 5 A) 3 – 25% by weight of polyurea;
 - B) 35 – 75% by weight of at least one amorphous and/or (semi)crystalline polyester synthesized from at least one polyol and at least one polycarboxylic acid and/or their ester(s) and/or anhydride(s) having an OH number of 5-250 mg KOH/g and a melting point of from 50 to 130°C;
 - 10 C) 5 – 30% by weight of at least one curing agent based on blocked polyisocyanate(s), isocyanurate(s) and/or uretdione(s) having a functionality of at least 2;
 - D) 0.5 – 50% by weight of at least one auxiliary(ies) and/or additive(s); the fraction of succinic acid or its anhydride in component B) being less than
15 15 mol% and there being from 0.5 to 1.2 NCO groups of component C) available per OH group of component B).
2. The coating material of claim 1, wherein the polyurea A) is composed of at least one at least difunctional isocyanate and at least one at least difunctional
20 amine and has an NCO/NH₂ ratio of 0.9 – 1.1:1.
3. The coating material of claim 1, wherein the polyurea is composed of an isocyanate and/or isocyanurate.
- 25 4. The coating material of claim 1, wherein the isocyanate or isocyanurate is selected from the group consisting of IPDI, HDI and HMDI, or a mixture of two or more thereof.
5. The coating material of claim 1, wherein the polyurea comprises an
30 aliphatic, (cyclo)aliphatic, cycloaliphatic, and/or aromatic diamine(s) and/or polyamine(s) having 5-18 carbon atoms.
6. The coating material of claim 1 that comprises IPD as the amine.
- 35 7. The coating material of claim 1, wherein component B) is an amorphous polyester.

8. The coating material of claim 7, wherein the amorphous polyester B) has a functionality of from 2.0 to 5.0, an OH number of from 5 to 250 mg KOH/g, a viscosity at 160°C of <60,000 mPa·s, and a melting point of from 50°C to 130°C.

5 9. The coating material of claim 1, wherein component B) is a (semi)crystalline polyester.

10 10. The coating material of claim 1, wherein the polyester has a functionality of from 2.0 to 4.0, an OH number of from 5 to 250 mg KOH/g, a melting point of from 50°C to 130°C, and a glass transition temperature of <-10°C.

11. The coating material of claim 1, wherein the polyester B) is synthesized from at least one of the following polyols:
monoethylene glycol, diethylene glycol, neopentyl glycol hydroxypivalate, butane-
15 1,4-diol, pentane-1,2-diol, pentane-1,5-diol, hexane-1,6-diol, dodecane-1,12-diol, cyclohexanediol, neopentyl glycol, 1,4-bis(hydroxymethyl)cyclohexane, trimethylolpropane, glycerol, or pentaerythritol.

12. The coating material of claim 1, wherein the polyester B) is synthesized from at least one of the following acids and/or esters and/or anhydrides:
terephthalic acid, isophthalic acid, phthalic acid, adipic acid, azelaic acid, succinic
20 acid, sebacic acid, dodecanedioic acid, hexahydroterephthalic acid, hexahydrophthalic acid, 1,4-cyclohexanedicarboxylic acid, trimellitic acid, or pyromellitic acid.

25 13. The coating material of claim 1, comprising a curing agent(s) C) based on blocked polyisocyanates, blocked isocyanurates and/or uretdiones as the diisocyanates IPDI, HDI and/or HMDI.

30 14. The coating material of claim 1, wherein the curing agent C) has been blocked with at least one blocking agent selected from the group consisting of caprolactam, triazoles, oximes, and pyrazoles.

35 15. The coating material of claim 1, wherein D) comprises at least one leveling agent(s), pigment(s), filler(s), dye(s), catalyst(s), light stabilizer(s), heat stabilizer(s), antioxidant(s) or effect additive(s).

16. A method for applying a coating to a material to be coated, comprising contacting said material with the polyurethane powder coating material of claim 1 under conditions suitable for formation of a coating on said material to be coated.

5 17. The method of claim 16, wherein said coating is produced by a method comprising electrostatic powder spraying.

18. The method of claim 16, wherein said coating is produced by a method comprising fluid-bed sintering with or without electrostatic assistance.

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19. The method of claim 16 that comprises curing the polyurethane powder coating material using heat to form a cured coating.

20. The method of claim 16, wherein a matt coating is produced.

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21. The method of claim 16, wherein said material to be coated is an architectural material.

22. The method of claim 16, wherein said material to be coated comprises metal.

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23. A coating produced from the powder of claim 1.

24. A coating having a matt appearance that is produced using the powder of claim 1.

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25. The coating of claim 24, wherein said coating has a degree of gloss of less than 70 at a 60° angle.

30 26. A coated industrial, commercial or consumer product that comprises the coating material of claim 1, or the coating material of claim 1 that has been cured.